

Solving Fraction Equations: Addition and Subtraction

Solve. Write each answer in lowest terms.

1. $\frac{5}{17} + a = \frac{8}{17}$

$a = \underline{\hspace{2cm}}$

2. $\frac{2}{7} + g = \frac{5}{7}$

$g = \underline{\hspace{2cm}}$

3. $u - \frac{1}{2} = \frac{1}{10}$

$u = \underline{\hspace{2cm}}$

4. $\frac{7}{8} - v = \frac{13}{16}$

$v = \underline{\hspace{2cm}}$

5. $\frac{4}{7} - w = \frac{6}{35}$

$w = \underline{\hspace{2cm}}$

6. $n - \frac{1}{5} = \frac{3}{10}$

$n = \underline{\hspace{2cm}}$

7. $f + \frac{7}{22} = \frac{13}{22}$

$f = \underline{\hspace{2cm}}$

8. $\frac{7}{9} - a = \frac{1}{36}$

$a = \underline{\hspace{2cm}}$

9. $z - \frac{1}{6} = \frac{1}{6}$

$z = \underline{\hspace{2cm}}$

10. $g + \frac{1}{4} = \frac{7}{16}$

$g = \underline{\hspace{2cm}}$

11. $\frac{5}{6} + w = \frac{17}{18}$

$w = \underline{\hspace{2cm}}$

12. $\frac{3}{8} - f = \frac{1}{24}$

$f = \underline{\hspace{2cm}}$

Write a true equation using the fractions given.

13. $\frac{3}{5}, \frac{1}{3}, \frac{14}{15}$

$\underline{\hspace{2cm}}$

14. $\frac{12}{35}, \frac{1}{7}, \frac{1}{5}$

$\underline{\hspace{2cm}}$

15. $\frac{5}{8}, \frac{3}{4}, \frac{1}{8}$

$\underline{\hspace{2cm}}$

16. $\frac{1}{12}, \frac{3}{20}, \frac{1}{15}$

$\underline{\hspace{2cm}}$

17. $\frac{3}{8}, \frac{15}{16}, \frac{9}{16}$

$\underline{\hspace{2cm}}$

18. $\frac{6}{7}, \frac{5}{7}, \frac{1}{7}$

$\underline{\hspace{2cm}}$

19. $\frac{2}{3}, \frac{1}{7}, \frac{17}{21}$

$\underline{\hspace{2cm}}$

20. $\frac{5}{12}, \frac{1}{4}, \frac{2}{3}$

$\underline{\hspace{2cm}}$

21. $\frac{3}{5}, \frac{1}{2}, \frac{1}{10}$

$\underline{\hspace{2cm}}$

22. $\frac{1}{7}, \frac{3}{4}, \frac{25}{28}$

$\underline{\hspace{2cm}}$

23. $\frac{13}{15}, \frac{1}{5}, \frac{2}{3}$

$\underline{\hspace{2cm}}$

24. $\frac{7}{10}, \frac{9}{20}, \frac{1}{4}$

$\underline{\hspace{2cm}}$

Write and solve an equation for the given situation.

25. Lori and Fraz ate $\frac{7}{12}$ of a pizza. If Lori ate $\frac{1}{3}$ of the pizza, how much of it did Fraz eat?

$\underline{\hspace{2cm}}$

26. Irene's gas tank was $\frac{9}{10}$ full when she left her house, and it was $\frac{7}{15}$ full when she arrived for her vacation. What fraction of a tank of gas did she use driving there?

$\underline{\hspace{2cm}}$